

## SEQUENCE LISTING

&lt;110&gt; TRANSGENE SA

&lt;120&gt; Polypeptide having an improved Cytosine deaminase activity

&lt;130&gt; D21447

&lt;140&gt;

&lt;141&gt;

&lt;150&gt; US 60/508 274

&lt;151&gt; 2003-10-06

&lt;150&gt; EP 03/360 087

&lt;151&gt; 2003-07-21

&lt;160&gt; 2

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 373

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence :Fusion protein having a CDase activity

&lt;300&gt;

&lt;400&gt; 1

Met	Val	Thr	Gly	Gly	Met	Ala	Ser	Lys	Trp	Asp	Gln	Lys	Gly	Met	Asp
1				5					10					15	

Ile	Ala	Tyr	Glu	Glu	Ala	Ala	Leu	Gly	Tyr	Lys	Glu	Gly	Gly	Val	Pro
		20						25					30		

Ile	Gly	Gly	Cys	Leu	Ile	Asn	Asn	Lys	Asp	Gly	Ser	Val	Leu	Gly	Arg
		35					40					45			

Gly	His	Asn	Met	Arg	Phe	Gln	Lys	Gly	Ser	Ala	Thr	Leu	His	Gly	Glu
	50					55					60				

Ile	Ser	Thr	Leu	Glu	Asn	Cys	Gly	Arg	Leu	Glu	Gly	Lys	Val	Tyr	Lys
	65				70					75					80

Asp	Thr	Thr	Leu	Tyr	Thr	Thr	Leu	Ser	Pro	Cys	Asp	Met	Cys	Thr	Gly
			85						90					95	

Ala	Ile	Ile	Met	Tyr	Gly	Ile	Pro	Arg	Cys	Val	Val	Gly	Glu	Asn	Val
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&lt;210&gt; 2

&lt;211&gt; 216

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;400&gt; 2

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Met Ser Ser Glu Pro Phe Lys Asn Val Tyr Leu Leu Pro Gln Thr Asn
 1           5          10          15
Gln Leu Leu Gly Leu Tyr Thr Ile Ile Ser Asn Lys Asn Thr Thr Arg
          20          25          30
Pro Asp Phe Ile Phe Tyr Ser Asp Arg Ile Ile Arg Leu Leu Val Glu
          35          40          45
Glu Gly Leu Asn His Leu Pro Val Gln Lys Gln Ile Val Glu Thr Asp
          50          55          60
Thr Asn Glu Asn Phe Glu Gly Val Ser Phe Met Gly Lys Ile Cys Gly
 65          70          75          80
Val Ser Ile Val Arg Ala Gly Glu Ser Met Glu Gln Gly Leu Arg Asp
          85          90          95
Cys Cys Arg Ser Val Arg Ile Gly Lys Ile Leu Ile Gln Arg Asp Glu
          100          105          110
Glu Thr Ala Leu Pro Lys Leu Phe Tyr Glu Lys Leu Pro Glu Asp Ile
          115          120          125
Ser Glu Arg Tyr Val Phe Leu Leu Asp Pro Met Leu Ala Thr Gly Gly
 130          135          140
Ser Ala Ile Met Ala Thr Glu Val Leu Ile Lys Arg Gly Val Lys Pro
 145          150          155          160
Glu Arg Ile Tyr Phe Leu Asn Leu Ile Cys Ser Lys Glu Gly Ile Glu
          165          170          175
Lys Tyr His Ala Ala Phe Pro Glu Val Arg Ile Val Thr Gly Ala Leu
          180          185          190
Asp Arg Gly Leu Asp Glu Asn Lys Tyr Leu Val Pro Gly Leu Gly Asp
          195          200          205
Phe Gly Asp Arg Tyr Tyr Cys Val
 210          215

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